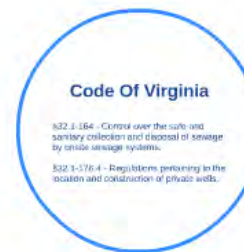


# Virginia Department of Health: Stakeholder Request for Onsite Sewage System and Private Well Records





# Virginia Department of Health: Stakeholder Request for Onsite Sewage System and Private Well Records



# Code Of Virginia

§32.1-164 - Control over the safe and sanitary collection and disposal of sewage by onsite sewage systems.

§32.1-176.4 - Regulations pertaining to the location and construction of private wells.

# Stakeholder Concerns

Records not always available.

Insufficient information to locate system in the field.





# 10,000+ Onsite Sewage Systems

## 10,000 Private Wells















**1,000,000+ Onsite Sewage Systems**

**700,000 Private Wells**





Chesterfield EHS Live - Main - IBM Notes

File Edit View Create Actions Tools Help

Welcome Menu

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Manager

Chesterfield EHS Live - Main...

HEALTHSPACE

HARMONIZED INTELLIGENCE

Chesterfield Live

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Schedule

References

Drafts

Locked Documents

TV Database

TV Billing/Payments Database

User Guide

Contact HealthSpace

All Programs

Env. Health

Disease

Marina

Office

Billing

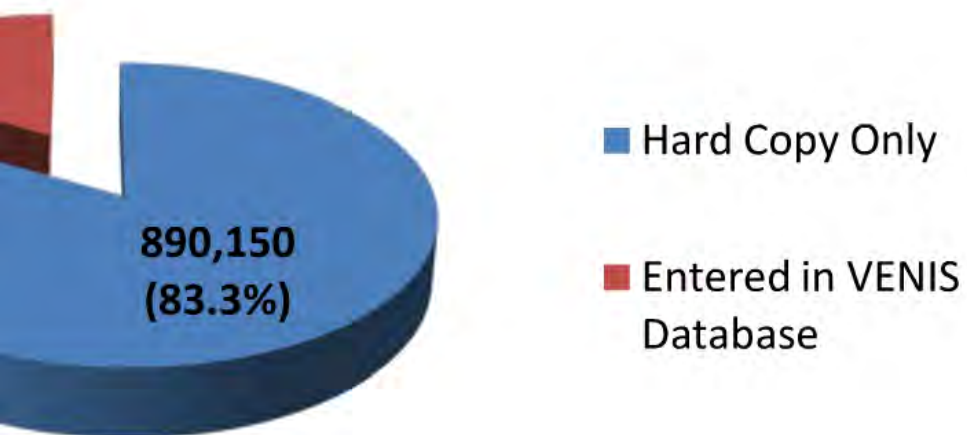
New

Common Name	Building #	Direction	Street Name / Type	City	County
▶ 1659 Dorset Meadows Ln	1659		Dorset Meadows Ln	Powhatan	Powhatan
▶ 1660 Dorset Meadows Ct	1660		Dorset Meadows Ct	Powhatan	Powhatan
▶ 1660 Giles Bridge Rd	1660		Giles Bridge Rd	Powhatan	Powhatan
▶ Powhatan Wellness	1660		Anderson Hwy	Powhatan	Powhatan
▶ 1660 Capeway Rd	1660		Capeway Rd	Powhatan	Powhatan
▶ 1660 Rocky Ford Rd	1660		Rocky Ford Rd	Powhatan	Powhatan
▶ 1660 Ballsville Rd	1660		Ballsville Rd	Powhatan	Powhatan
▶ PWSID 4145100, Powhatan Wellness	1660		Anderson Hwy.	Powhatan	Powhatan
▶ 1660 Reams Rd	1660		Reams Rd	Powhatan	Powhatan
▶ 709657840000000	16600		Brattice Mill Rd	Chesterfield	Chesterfield
▶ 761622045400000	16600		Chinook Dr	South Chesterfield	Chesterfield
▼ 761621577900000	16601		Chinook Dr	South Chesterfield	Chesterfield
▼ Sewage Treatment System: "761621577900000", Lance Gregory, Construction Permit Application on 26-Mar-2009, Installed , OP Issued 20-Jan-2012, Active Construction Inspection by Lance Gregory, Approved for Operation Permit: Yes Sewage Operation Permit on 20-Jan-2012 Note to File: 15-Feb-2011, by Lance Gregory, Permit Extension, General, Completed 15-Feb-2011 Sewage System Construction Permit on 27-Jul-2009 ▼ Site Evaluation: Site visit began 25-Sep-2008 Next visit scheduled for 1-May-2009 Sewage Site Evaluation on 6-May-2009 ▼ Private Well: "761621577900000", Lance Gregory, Private Well Application on 26-Mar-2009, Installed on Private Well Record of Inspection on 12/14/2010, by Brian Flaherty Private Well Construction Permit on 27-Jul-2009					
Ⓜ ▶ Sewage Treatment System: "761621577900000", Daniel Bostedt, Single Lot Certification Letter Application on 15-Sep-2008, Administrative Denial , Closed					
▶ 709688250700000	16601		Genito Rd	Moseley	Chesterfield
▶ 708655773000000	16602		Brattice Mill Pl	Chesterfield	Chesterfield
▶ 708655520000000	16603		Brattice Mill Pl	Chesterfield	Chesterfield
▶ 709657542400000	16606		Brattice Mill Rd	Chesterfield	Chesterfield
▶ 708656826800000	16607		Brattice Mill Rd	Chesterfield	Chesterfield

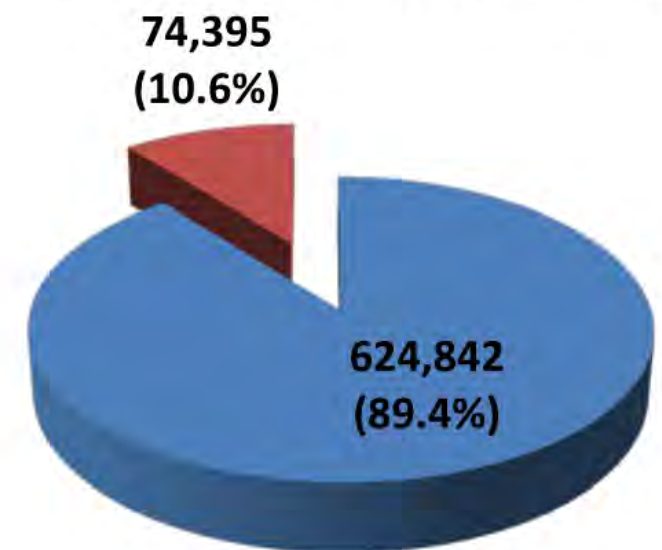
Found 'chi'.

Online

## Number of Installed Septic Systems



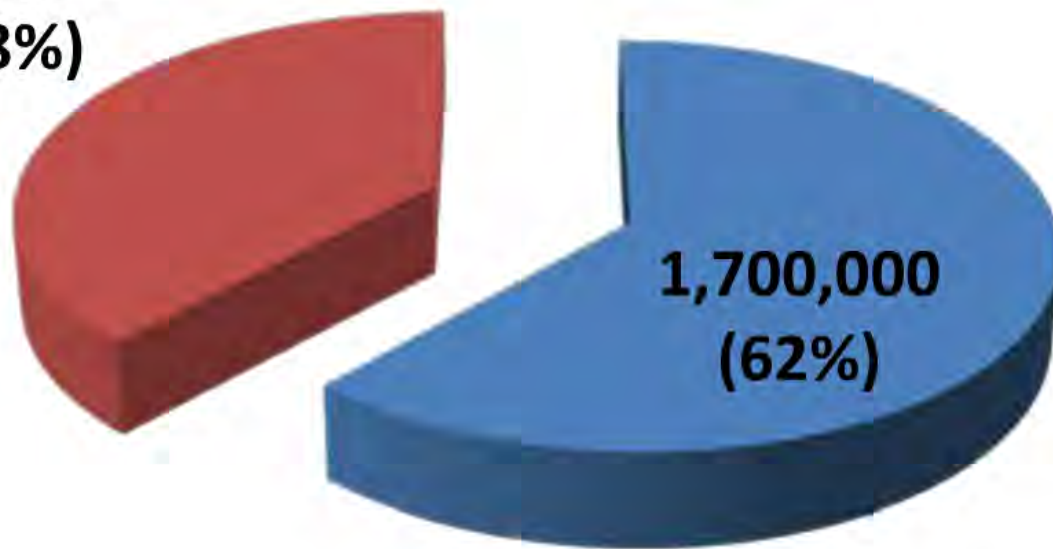
## Number of Installed Private





# Total Number of Records

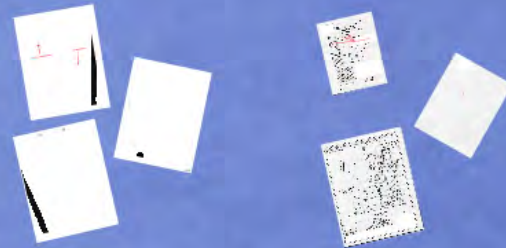
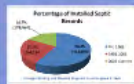
**1,050,000  
(38%)**



- Installed Septic and Wells
- Other Records

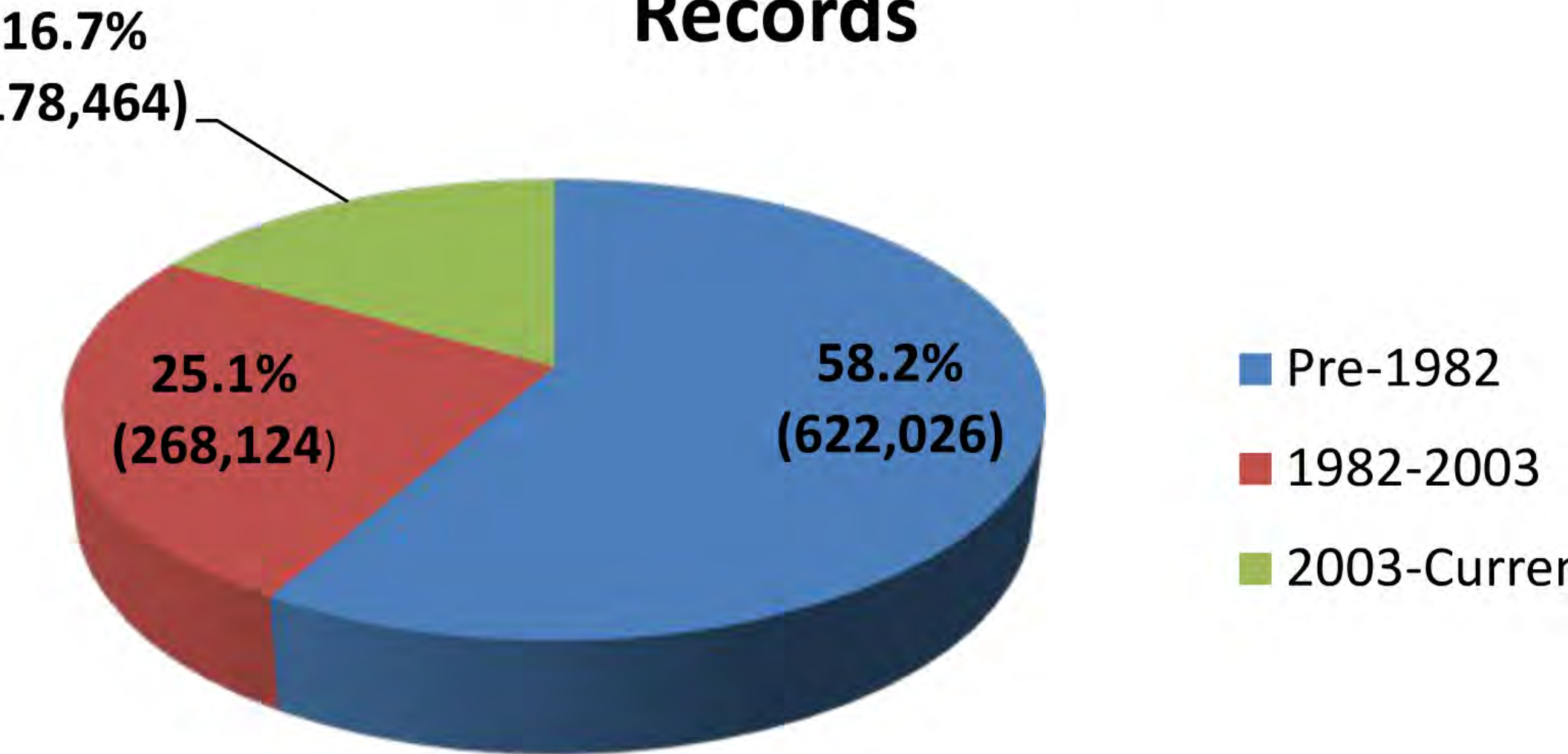
Pre 1982 1982-2003 2003-Today

# Septic & Well Records



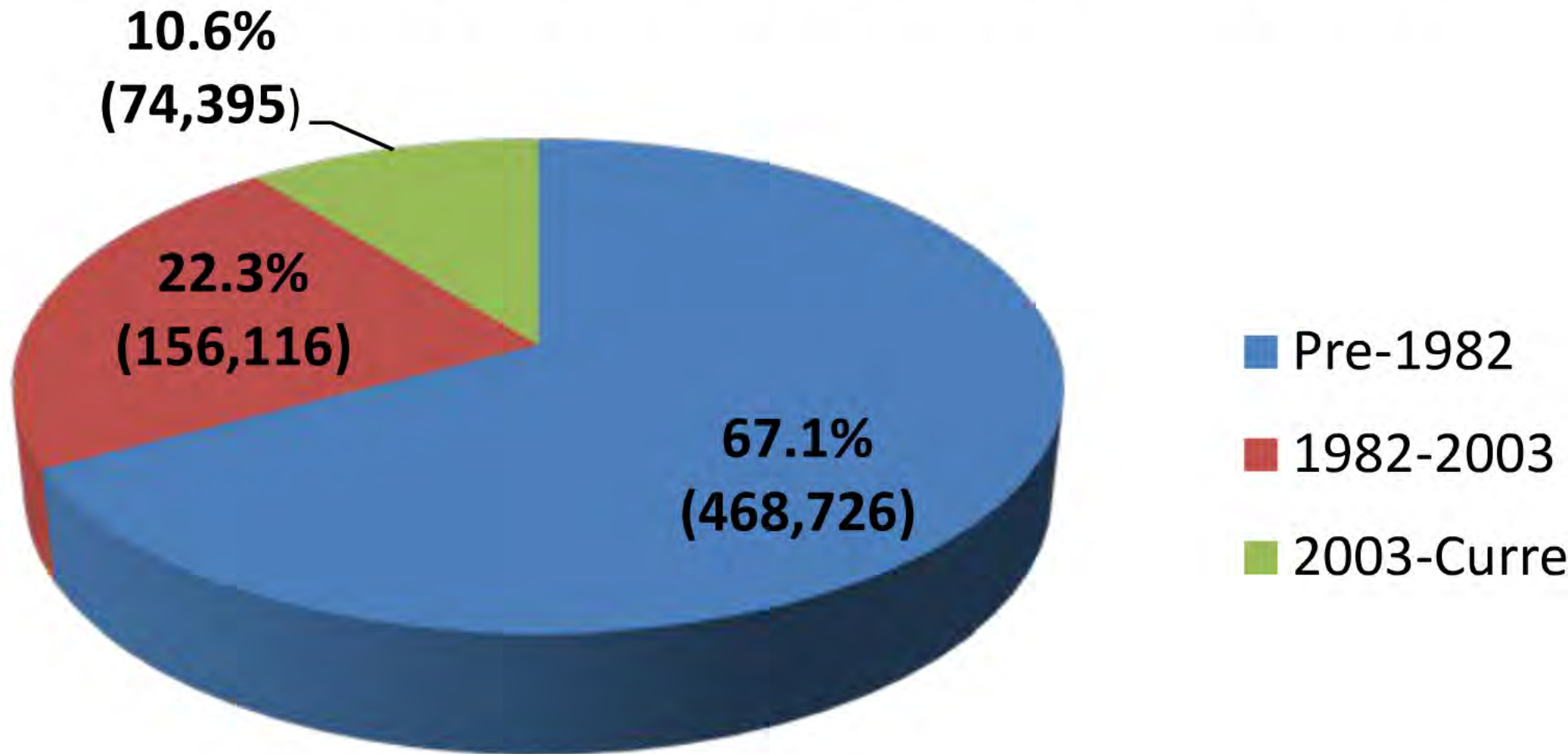


# Percentage of Installed Septic Records



Sewage Handling and Disposal Regulations promulgated in 1968.

# Percentage of Installed Well Records



Private Well Regulations promulgated in 1990.

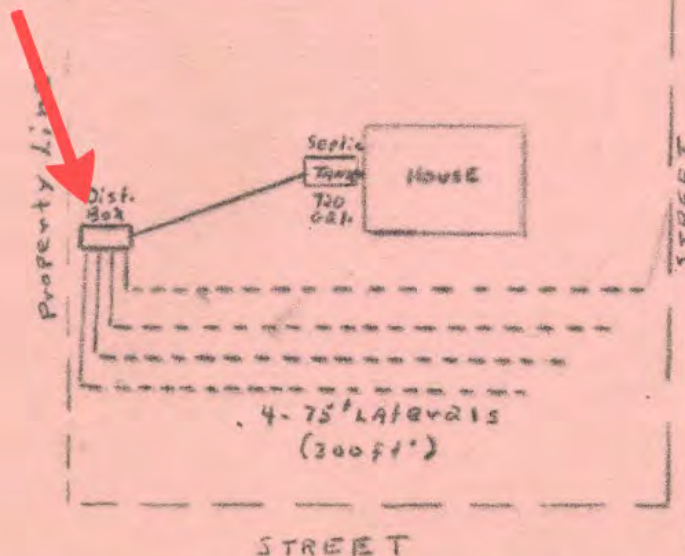


Campbell County HEALTH DEPARTMENT

PERMIT TO INSTALL OR REPAIR SEPTIC TANK SYSTEM

Sketch of Proposed System

No Measurements



Permit No. 1 Date of Application 3/12/47

To Whom Issued W.B. English Lumber Co.

Address Altavista, VA.

Location \_\_\_\_\_

Bungalow Subdivision

Type of Tank Concrete

Minimum Size 720 Gal.

Minimum Feet of 4" Farm Tile in

Distribution Field 300

Depth in Inches of Cinders or Stone \_\_\_\_\_

Owner's Name J.B. Hall

Address Altavista, Va.

Final Approval. \_\_\_\_\_ Date 6/2/47

Signed Wm. M. [Signature]

No Property Identification

NOTE: Plumber must notify the Campbell County Health Department (Phone 26) when the septic tank system is ready for inspection. If any septic tank system or part thereof is covered before being regularly inspected and approved, it shall be uncovered by the plumber at the direction of the Health Officer or his authorized representative.



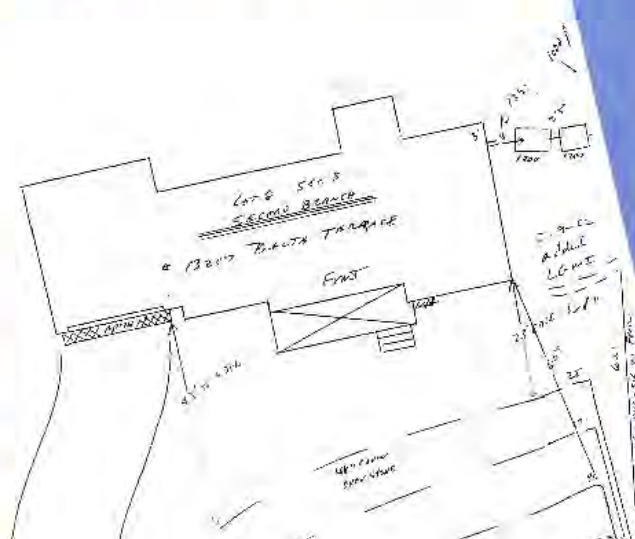
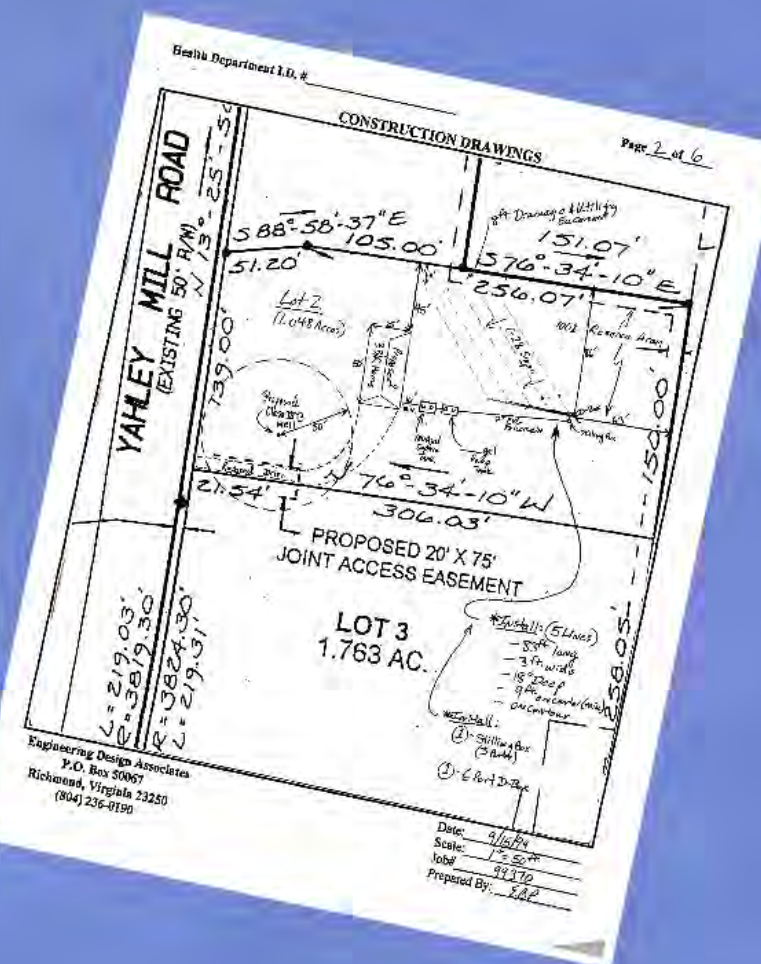
# Water Supply and/or Sewage Disposal System Construction Permit

Commonwealth of Virginia  
Department of Health  
Frederick County

Health Department  
Permit Number  
Map Reference

99-148-0343

<p>General Information</p> <p>Water Supply System: <input checked="" type="checkbox"/> New <input type="checkbox"/> Repair <input type="checkbox"/> Expanded <input type="checkbox"/> Conditional <input type="checkbox"/> Public <input type="checkbox"/> Private</p> <p>Sewage Disposal System: <input checked="" type="checkbox"/> New <input type="checkbox"/> Repair <input type="checkbox"/> Expanded <input type="checkbox"/> Conditional <input type="checkbox"/> Public <input type="checkbox"/> Private</p> <p>Based on the application for a sewage disposal system construction permit filed in accordance with Section 2-13 of the State Planning and Zoning Ordinance and/or Section 2-15 of the Private Well Regulations and the construction permit is hereby issued by:</p> <p>Owner: <u>Frederick County, Virginia</u> For a Type: <u>Public</u> Sewage Disposal System or Well to be constructed at: <u>Frederick County, Virginia</u> Actual or estimated water use: <u>1000 gpd</u></p> <p>Address: <u>P.O. Box 877, Shenandoah, VA 22150</u> Lot: <u>2</u> Subdivision: <u>None</u> Subdivision Map: <u>None</u></p>	
<p>NOTE: SEWAGE DISPOSAL SYSTEM INSPECTION RESULTS</p> <p>Water supply location: Satisfactory <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Water supply: existing: <u>none</u></p> <p>To be installed: <u>50' dia</u></p> <p>Building owner: <u>Frederick County</u></p> <p>Inspection Report: <u>See attached</u></p>	
<p>Property Identification</p> <p>Map: <u>None</u></p> <p>Septic tank: Capacity: <u>1000</u> gals. (minimum)</p> <p>Other: <u>none</u></p> <p>Pump and pump station: <u>none</u></p> <p>Gravity: <u>none</u></p> <p>Distribution box: <u>none</u></p> <p>Header lines: <u>none</u></p> <p>Percolation lines: <u>none</u></p> <p>Absorption trenches: <u>none</u></p>	





Commonwealth of Virginia  
Department of Health

Health Department  
Identification Number

99-143-0343

Henrico County

Health Department

Map Reference

General Information

Water Supply System: New ☒ Repair ☐ Public ☐ FHA ☐ VA ☐ Case No. ☐

Sewage Disposal System: New ☒ Repair ☐ Expanded ☐ Conditional ☐ Public ☐

Based on the application for a sewage disposal system construction permit filed in accordance with Section 2.13 E, of the Sewage Handling and Disposal Regulations and/or Section 2.13 of the Private Well Regulations a construction permit is hereby issued to:

Owner BAMA Associates, Inc. c/o: Alan Williamson Telephone (804) 328-0651

Address P.O. Box 877, Sandston, VA. 23150 For a Type II Sewage Disposal System or Well to be constructed on/at East side of Yahley Mill Road, just south of Charles City Rd.

Subdivision Wayne's Corner Section/Block A Lot 2 Actual or estimated water use 450 gpd

SIGN

NOTE: SEWAGE DISPOSAL SYSTEM INSPECTION RESULTS

Water supply, existing: (describe) N/A

Water supply location: Satisfactory yes ☒ no ☐  
comments

To be installed: class IEB  
cased 50' min. grouted 50' min.

Completion Report  
G. W. 2 Received: yes ☒ no ☐ not applicable ☐

Building sewer:  
Slop                      ant.  
☐ Other                     

Building sewer:  
Satisfactory                      Inspection Report 2

Septic tank: Capacity 1000 gals. (minimum).  
☐ Other                     

Pretreatment unit: yes ☒ no ☐ comments  
Satisfactory

Inlet-outlet structure:  
PVC Schedule 40, 4" tees or equivalent.  
☐ Other                     

Inlet-outlet structure: yes ☒ no ☐ comments  
Satisfactory

Pump and pump station:  
No ☐ Yes ☒ describe and show design.  
if yes: \* See Attached Detail

Pump & pump station: yes ☒ no ☐ comments  
Satisfactory

Gravity mains: 3" or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent.  
☐ Other                     

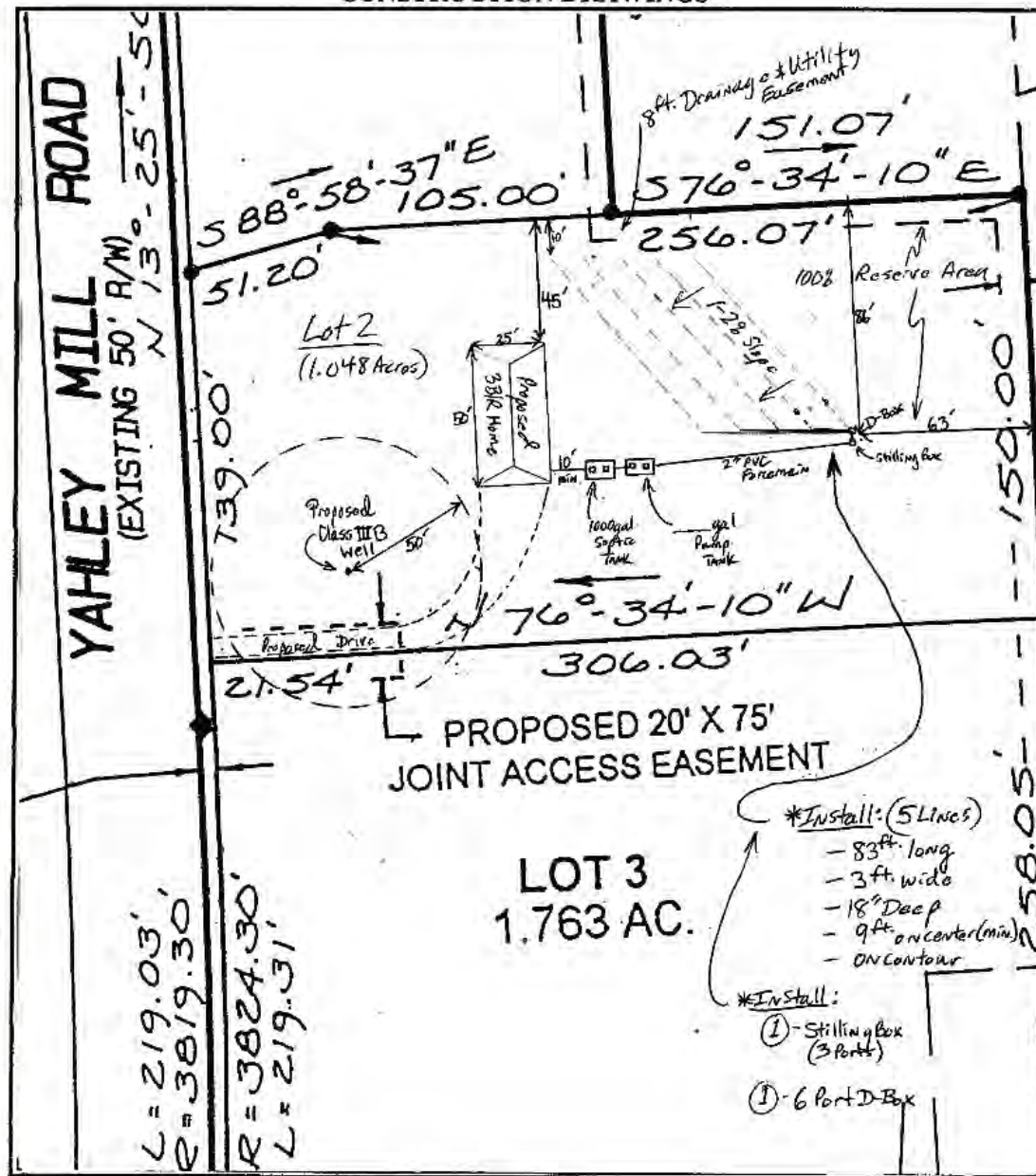
Conveyance method: yes ☒ no ☐ comments  
Satisfactory

Distribution box:

Distribution box: yes ☒ no ☐ comments



## CONSTRUCTION DRAWINGS



Engineering Design Associates  
P.O. Box 50067  
Richmond, Virginia 23250  
(804) 236-0190

Date: 9/15/99  
Scale: 1" = 50'  
Job# 99370  
Prepared By: EBP



LOT 8 SEC 3  
SECOND BRANCH

# 13207 BALTA TERRACE

APRON

FRONT

43' to EDGE

48" COVER  
OVER STONE

5-90's

3'

1200

1200

5-9-02  
added  
LGMT  
---

28' EDGE W/IT

65'

25'

17'

8'

62'

1 1/2" PVC







Professional Engineer Report for  
**Construction Permit**

Lot: 18 Section: B Subdivision: Cross Creek Acreage: .91+/- Acres

**Property  
Location:**

Map Reference: GPIN: 7227225155

Other Property ID: 3307 Crossings

**Applicant / Client and Address:**

Billy Sowers  
3410 Crossings Way  
Midlothian, VA 23113  
(804) 378-7787  
Email: wsowers3@comcast.net

**Prepared by:**

Property Identification

Date of Report: 5/7/14

AOSE / P.E. Job Number: C1400111.00

Revisions: \_\_\_\_\_

Health Dept. ID No.: \_\_\_\_\_

**Contents / Index of this Report:**

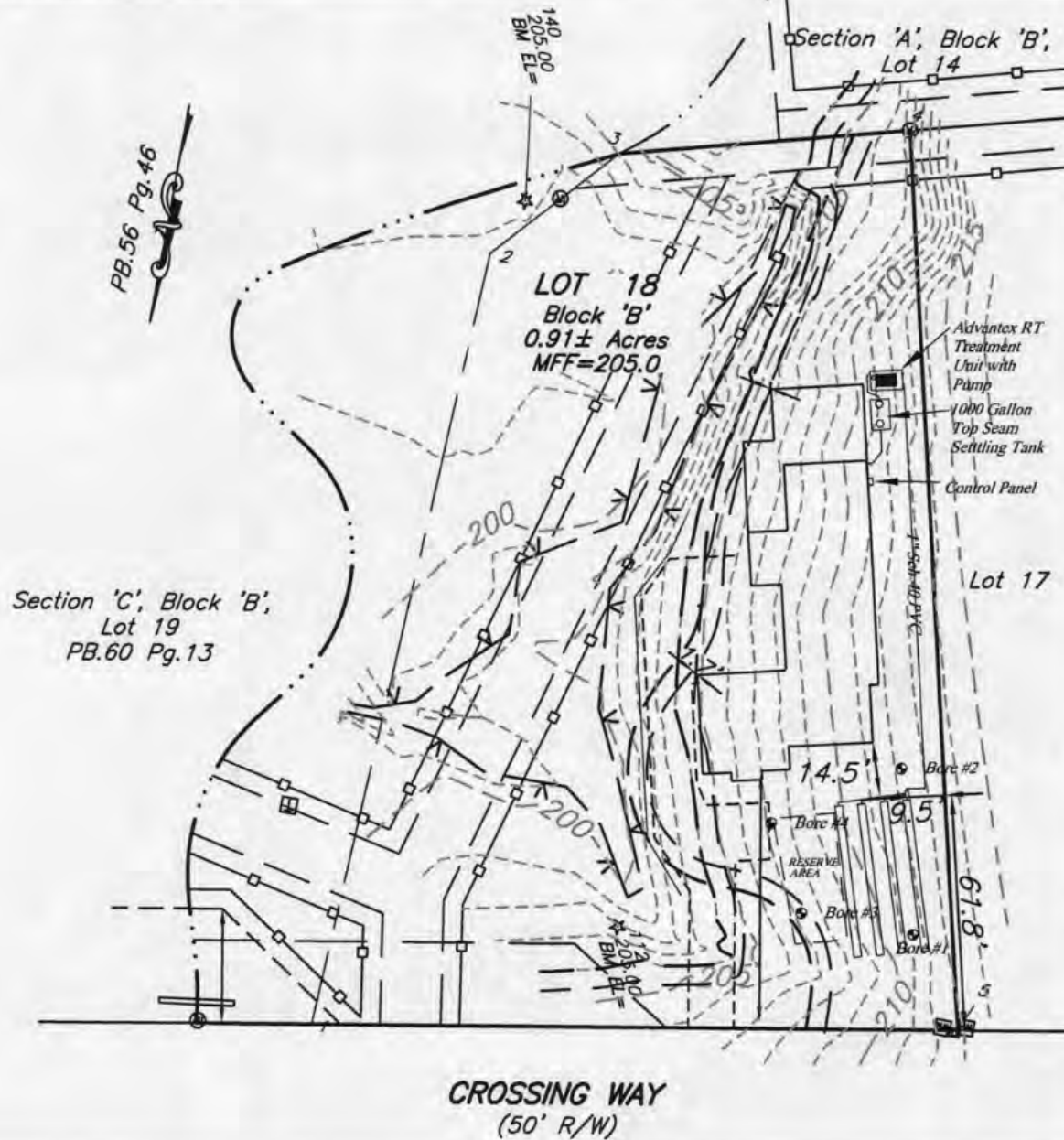
**Page(s):**

Site Layout / Construction Drawings	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>2</u>
Soil Summary Report	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>3</u>
Soil Profile Descriptions	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>4</u>
Construction Specifications	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>5</u>
AX20-RT Specifications	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>6-8</u>
Abbreviated Design Form	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>9</u>
Advantex Owner's Manual	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>10-13</u>
Septic Care & Maintenance	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>14</u>
Water Supply Design Specs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<u>--</u>

**Certification Statement:**

I hereby certify that the evaluations and/or designs contained herein were conducted in accordance with the Sewage Handling and Disposal Regulations (12 VAC5-610), the Private Well Regulations (12 VAC5-630) and all other applicable laws, regulations and policies implemented by the Virginia Department of Health. I further certify that I currently possess any professional license required by the laws and regulations of the Commonwealth that have been duly issued by the applicable agency charged with licensure to perform the work contained herein. The work attached to this cover page has been conducted under an exemption to the practice of engineering, specifically the exemption in The Code of Virginia Section 54.1-402.A.11.

This plat is for Health Department review only. The information provided herein does not constitute a certified survey, building permit plat, or record plat. All matters pertaining to easements, setbacks, right of ways, etc, are the owner's responsibility.



DATE: 5/7/2014  
SCALE: 1"=40'  
JOB NO: C1400111.00  
Pur: Sowers

Proposed  
Improvements on  
LOT 18, CROSS CREEK  
3307 CROSSINGS WAY  
Chesterfield County, Virginia



Residential ☒ Commercial ☐  
Repair ☐ Expanded ☐  
Conventional ☐ Pump Conventional ☐  
Alternative Advantex AX20-RT ☒

Number of Bedrooms 3  
Termite Treatment ☒ Yes ☐ No  
Basement ☒ Yes ☐ No  
Fixtures in Basement ☒ Yes ☐ No

Billy Sowers  
Address: 3410 Crossings Way, Midlothian, VA 23113

Division: Cross Creek Section: B Block: B Lot: 18

For estimated water use: 450 GPD

DESIGN				NO	
Supply:	<input checked="" type="checkbox"/> Public	<input type="checkbox"/> Private	<input type="checkbox"/> New	<input type="checkbox"/> Existing	Count
Installed:					
Sewer:					
C 40 or equivalent. 25" per 10" (minimum).					
Tank: Capacity <u>(1) 1000 Gallon To Seam Settling Tank</u> (minimum) <u>AX-RT Treatment Tank with Pump Package</u>					
Structure:					
4' or equivalent.					

System Capacity

# Improving Accessibility

## Local Government Reporting

Pump-out records in the Chesapeake Bay Watershed.

Services provided by the private sector.

## Property Transfer Inspection

### Benefits:

- Qualified professional = trusted information.
- Expands VDH database for future use.
- Improves record for pre-1982 installations.

### Hurdles:

- Cost to consumer.
- Finding qualified professionals.
- Stakeholder buy-in.
- Non-conforming systems.

## VDH Entry of Hard Copy Records

### Benefits:

- Data entry for all identifiable records.
- Faster response to record request.

### Hurdles:

- Resources:  
812,500 staff hours/\$15,000,000.
- Doesn't resolve issue with identification of pre-1982 records.

## Property Transfer Inspection

### Current System:

- Agreed on by buyer and seller.
- Required by lender.
- No statutory requirement.
- Can be inspected by anyone.
- Complaints about failing systems, not inspected by a qualified individual.

## Third Party Scanning

### Benefits:

- Records stored in electronic format.

### Hurdles:

- Cost - \$1,375,000
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# Local Government Reporting

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the Chesapeake Bay  
Watershed.

Services provided by the  
private sector.

# Underground Storage Tanks

DEQ has authority (§62.1-44.34:8-12).

Publicly available data for:

Certification of UST's.

Interactive Map of LUST.

<http://www.deq.virginia.gov/Programs/LandProtectionRevitalization/PetroleumProgram.aspx>



Lance Gregory  
Environmental Health Coordinator  
Office of Environmental Health Services  
Division of Onsite Sewage and Water  
Services, Environmental Engineering,  
and Marina Programs  
(804) 864-7491  
[lance.gregory@vdh.virginia.gov](mailto:lance.gregory@vdh.virginia.gov)